### **School Management Software Documentation**

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# Module 3: Introduction to spring boot and Spring Framework

# 3. Student Management Microservice

### GIT URL-

# 3.1. Fetch All Students

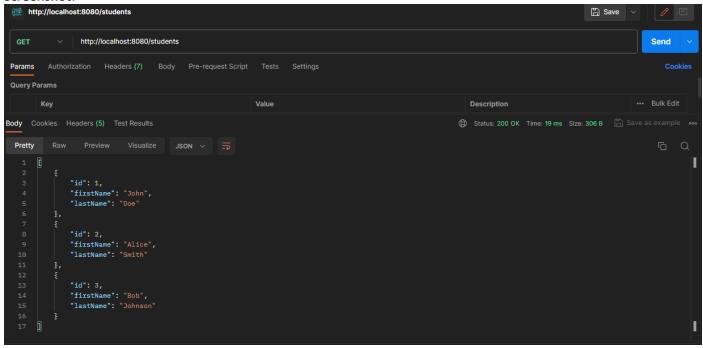
Implementing an API to fetch all students from the database.

## **Endpoint: GET /students**

http://localhost:8080/students

**Description:** This API retrieves a list of all students from the database.

### **Screenshot:**



### 3.2. Fetch Single Student

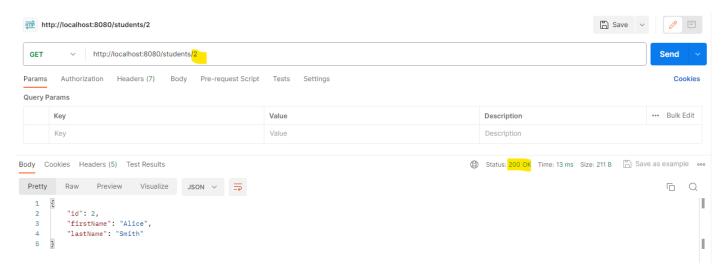
Implementing an API to fetch a single student by ID from the database.

# Endpoint: GET /students/{id}

http://localhost:8080/students/2

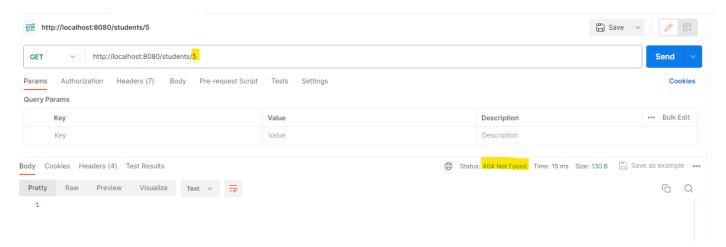
**Description:** This API retrieves a single student based on the provided ID.

#### **Screenshot:**



Trying to retrieve invalid student for example

http://localhost:8080/students/5 we get 404 Not Found



### 3.3. Create New Student

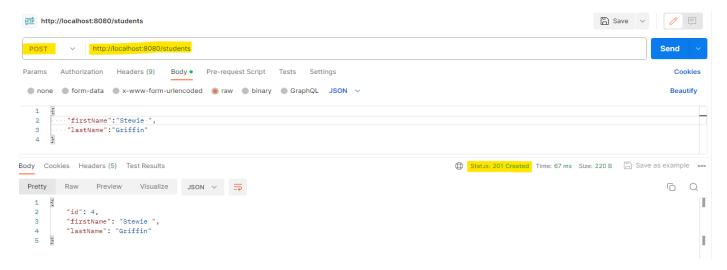
Implementing an API to create a new student and store it in the database.

### **Endpoint: POST /students**

http://localhost:8080/students

**Description:** This API creates a new student with the provided information.

**Screenshot:** 



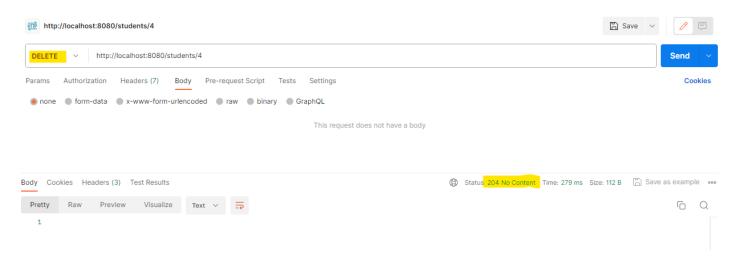
### 3.4. Delete Student

Implementing an API to delete a student by ID from the database.

# **Endpoint: DELETE /students/{id}**

**Description:** This API deletes a student based on the provided ID.

#### **Screenshot:**



## 3.5. Update Student

Implementing an API to update a student's information in the database.

## Endpoint: PUT /students/{id}

http://localhost:8080/students/4

**Description:** This API updates a student's information based on the provided ID.

#### **Screenshot:**

